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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/696,729	10/29/2003	Scott Freeberg	279.652US1	6340
45458 7590 11/26/2010 SCHWEGMAN, LUNDBERG & WOESSNER/BSC-CRM PO BOX 2938 MINNEAPOLIS, MN 55402			EXAMINER	
			HOLMES, REX R	
MIININEAFOLIS, MIN 33402			ART UNIT	PAPER NUMBER
			3762	
			NOTIFICATION DATE	DELIVERY MODE
			11/26/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

uspto@slwip.com request@slwip.com

	Application No.	Applicant(s)				
Office Action Comment	10/696,729	FREEBERG, SCOTT				
Office Action Summary	Examiner	Art Unit				
	REX HOLMES	3762				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>12 I</u>	November 2009					
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<i>;</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under Lx parte Quayle, 1900 C.D. 11, 400 C.C. 210.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-7,9,11-37 and 46-55</u> is/are pendin	☑ Claim(s) <u>1-7,9,11-37 and 46-55</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>1-7,9,11-13,21-24,29-37,46-55</u> is/are allowed.						
6)⊠ Claim(s) <u>14-20 and 25-28</u> is/are rejected.						
7) Claim(s) is/are objected to.						
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Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 2. Claims 14-20, 25-37 are rejected under 35 U.S.C. 102(e) as being anticipated by Park (U.S. Pat. 7,136,705).
- 3. Regarding claims 14, 25 and 29, Park discloses an implantable medical device that includes a first sensor and a second sensor (e.g. Col. 12, II. 4-8). Each sensor provides a signal indicative of a ventilation rate (e.g. Col. 12, II. 4-23). Park further discloses that a processor determines a rate with each signal and then takes the difference of the two signals (e.g. Col. 12, II. 31-67).
- 4. Regarding claims 15 and 26, Park discloses that at least one of the sensors is a transthoracic impedance sensor (e.g. Col. 10, line 59 to Col. 11, line 6).
- 5. Regarding claims 16 and 30-31, Park discloses that the system utilizes a pair of sensing and stimulation electrodes (e.g. Fig. 1).
- 6. Regarding claims 17-18, 27 and 35-37, Park discloses the system includes an activity sensor (accelerometer) (e.g. Col. 10, II. 26-36; Col. 12, II. 4-12).

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7. Regarding claims 19, 28 and 32-34, Park discloses that there is a therapy circuit adapted to deliver therapy in response to the measured rates (e.g. Col. 12, II. 28-37).

- 8. It is noted that language "indicative or first ventilation rate derived from the first chamber of the heart", does not require the sensors to be in the same chamber. Further the language "indicative" does not limit the claim and constitutes functional language.
- 9. It is further noted that it has been held that the recitation that an element is "adapted to" perform a function is not a positive limitation but only require the ability to so perform. It does not constitute a limitation in any patentable sense. In re Hutchison, 69 USPQ 138.

Allowable Subject Matter

- 10. Claims 1-7, 9, 11-13, 21-24, 46-55 are allowed.
- 11. The following is a statement of reasons for the indication of allowable subject matter: The subject matter for the independent claims could not be found or was not suggested in the prior art. The subject matter not found was determining a first and second ventilation rate from first and second impedance measurements and then comparing the first and second ventilation rates to see if there is a difference in combination with the other limitations of the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Park et al. (U.S. Pat. 6,928,324).- Discloses that thoracic impedance is proportional to ventilation rate (Col. 15, II. 27-34; Col. 21, II. 30-43). U.S. Pat. No. 4,901,725 issued to Nappholz et al., U.S. Pat. No. 4,596,251 issued to Plicchi et al., U.S. Pat. No. 5,562,712 issued to Steinhaus et al., or U.S. Pat. No. 5,562,711 issued to Yerich et al. Methods for measuring intra-thoracic impedance measurements used for determining respiration rate and minute ventilation have been proposed for use in monitoring for pulmonary congestion/edema based on evaluation of respiration rate.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to REX HOLMES whose telephone number is (571)272-8827. The examiner can normally be reached on M-F 9:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Niketa Patel can be reached on (571) 272-4156. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/R. H./
Examiner, Art Unit 3762
/Niketa I. Patel/
Supervisory Patent Examiner, Art Unit 3762